

# XP-002251822

- AN - 2000-407015 [35]
- AP - JP19980318024 19981109
- CPY - CENG
- DC - L01
- DR - 1498-U 1499-U 1503-U 1510-U 1517-U 1519-U 1521-U 1544-U 1694-U 1941-U
- FS - CPI
- IC - C03C3/078 ; C03C3/085 ; C03C3/087 ; C03C3/089 ; C03C3/093
- MC - L01-A01A
- PA - (CENG ) CENTRAL GLASS CO LTD
- PN - JP2000143280 A 20000523 DW200035 C03C3/078 007pp
- PR - JP19980318024 19981109
- XA - C2000-123463
- XIC - C03C-003/078 ; C03C-003/085 ; C03C-003/087 ; C03C-003/089 ;  
C03C-003/093
- AB - JP2000143280 NOVELTY - The composition consists of SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, B<sub>2</sub>O<sub>3</sub>, alkali metal oxide (R<sub>2</sub>O), divalence metallic oxide (RO) and ZrO<sub>2</sub> mixed in predetermined weight percentage so that the thermal expansion coefficient of the composition in the temperature range of 30-300 deg. C is within 70-90 multiply 10<sup>-7</sup>/ deg. C and the Vickers hardness level Hv at most 5.2 GPa.
  - DETAILED DESCRIPTION - The glass composition consists of SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, B<sub>2</sub>O<sub>3</sub>, Li<sub>2</sub>O, Na<sub>2</sub>O and K<sub>2</sub>O mixed respectively in the weight percentage ranges of 71-83, 0-11, 0-5, 0-5, 6-20 and 0-12. The weight percentage of alkali metal oxides (R<sub>2</sub>O) consisting of Li<sub>2</sub>O, Na<sub>2</sub>O and K<sub>2</sub>O is arranged to be within 6-20. The divalence metallic oxide (RO) formed by mixing MgO, CaO, SrO and BaO in the weight percentage of 0-8, 0-10, 0-5 and 0-5 has a total weight percentage ratio of 3-10. The weight percentage of ZrO<sub>2</sub> is 0.5-3.
  - USE - Soda lime silica group glass.
  - ADVANTAGE - Improves brittleness of glass. Enables obtain glass with improved chemical resistance, glass melting and molding properties.
  - (Dwg.0/0)
- IW - SODA LIME SILICA GROUP GLASS PREDETERMINED THERMAL EXPAND COEFFICIENT SPECIFIED VICKERS HARD LEVEL
- IKW - SODA LIME SILICA GROUP GLASS PREDETERMINED THERMAL EXPAND COEFFICIENT SPECIFIED VICKERS HARD LEVEL
- NC - 001
- OPD - 1998-11-09
- ORD - 2000-05-23
- PAW - (CENG ) CENTRAL GLASS CO LTD
- TI - Soda lime silica group glass has predetermined thermal expansion coefficients and specified Vickers hardness levels